

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 11209151
PUBLICATION DATE : 03-08-99

APPLICATION DATE : 26-01-98
APPLICATION NUMBER : 10011877

APPLICANT : SUMITOMO METAL MINING CO LTD;

INVENTOR : SUDO SHINGO;

INT.CL. : C04B 18/08

TITLE : PRODUCTION OF ARTIFICIAL LIGHTWEIGHT AGGREGATE

ABSTRACT : PROBLEM TO BE SOLVED: To produce a high strength and high quality artificial lightweight aggregate at a low cost by adding an easily available low-cost additive.

SOLUTION: Coal ash, calcium oxide and/or calcium hydroxide and cement are mixed, optionally comminuted to $\leq 30 \mu\text{m}$ average particle diameter, optionally wet-kneaded, molded, cured with steam under atmospheric pressure and then cured with steam under high pressure. In order to increase the strength of the resultant artificial lightweight aggregate and the utilization rate of the coal ash, 1-50 wt.% (expressed in terms of CaO) calcium oxide and/or calcium hydroxide and 1-50 wt.% cement are preferably used.

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